PROPOSED CLAIMS

Applicant proposes the following new claims.

1.   (New) A computerized system for acquisition of a discrete set of decision

alternatives evaluated according to multiple evaluation criteria, and for the

exploration of said set of decision alternatives, and for selection among said set

of decision alternatives, based on said evaluation criteria comprising:

a seeker software process for producing a plurality of decision

alternatives wherein each decision alternative is evaluated according to a

plurality of evaluation criteria, and wherein said seeker software process uses a

compositional modeling language and corresponding simulator to generate said

discrete set of decision alternatives and evaluate them according to said

evaluation criteria using simulations;

a filter software process for producing a subset of decision alternatives

from among said decision alternatives produced by said seeker software

process by comparing each decision alternative to other decision alternatives

and excluding decision alternatives that are inferior according to any rule or

procedure; and

a viewer software process for enabling examination and comparison of

decision alternatives in said subset of decision alternatives according to said

evaluation criteria, including examination of tradeoffs among said decision

alternatives in said subset of decision alternatives, and enabling successive

narrowing of decision alternatives in said subset of decision alternatives.

2.   (New) A computerized system for exploring a discrete set of decision candidates

comprising:

a seeker software process for producing a set of evaluated decision

candidates wherein each of a plurality of decision candidates is composed using

a plurality of components that are combined to create a decision candidate

within said discrete set of decision candidates and wherein each of said plurality

of decision candidates is evaluated according to each of at least two evaluation

criteria;

a filter software process for producing a set of filtered decision

candidates from said set of evaluated decision candidates by comparing values

of said at least two evaluation criteria from each decision candidate with values

of said at least two evaluation criteria from other decision candidates and using

a form of dominance with respect to said values of said at least two evaluation

criteria to exclude from said set of evaluated decision candidates each decision

candidate that is inferior to any other decision candidate according to values of

said at least two evaluation criteria such that said set of filtered decision

candidates contains only decision candidates that are tradeoffs with respect to

each other; and

a viewer software process for displaying on a graphical display said

filtered decision candidates in a plurality of linked scatterplots wherein each axis

of each scatterplot represents an evaluation criterion of said filtered decision

candidates and each point on each scatterplot represents a filtered decision

candidate that survived said filter software process for producing a set of filtered

decision candidates from said evaluated decision candidates and represents a

tradeoff within said discrete set of decision candidates such that no filtered

decision candidate is superior to any other filtered decision candidate in relation

to all of said evaluation criteria.